**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Systems Engineering |
| Level | Bachelor |
| Program of study | Automation and Applied Informatics |

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| Course | **Systems Theory II** |
| Code | 2SA5OD31 |
| Year of study (semester) | III (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor |  Prof., Ph.D. POP Emil |

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| **No.** | **Topic** |
|  | ANALYSIS OF NON-LINEAR AUTOMATIC SYSTEMS - METHOD OF HARMONIC LINEARIZATION, DESCRIPTION FUNCTION METHOD, PHASE PLAN METHOD |
|  | ADJUSTMENT SYSTEM WITH RELAY TYPE REGULATOR |
|  | AUTOMATIC SYSTEMS WITH SAMPLING |
|  | Z TRANSFORMER  |
|  | AUTOMATIC ADAPTIVE SYSTEM WITH FORECAST |
|  | TYPES OF ADAPTIVE CONTROLLERS |
|  | ADAPTIVE IDENTIFIERS AND OBSERVERS |